FIG. 1

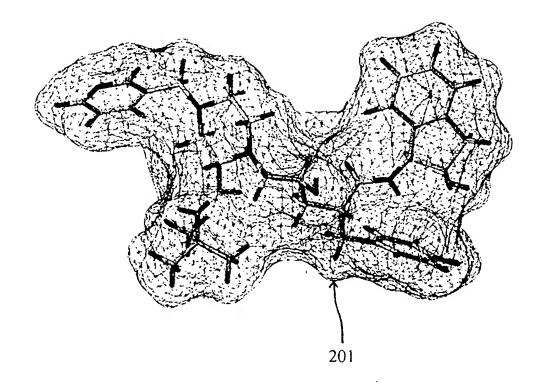


FIG. 2

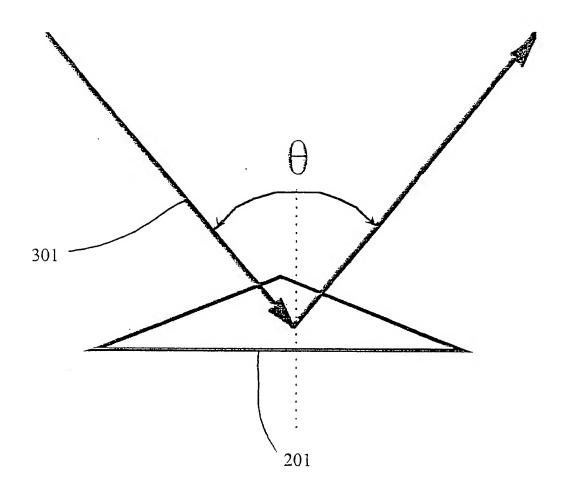


FIG. 3

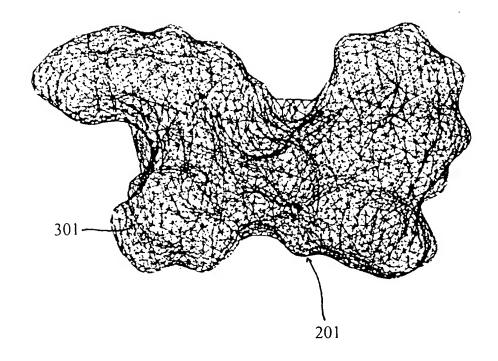


FIG. 4A

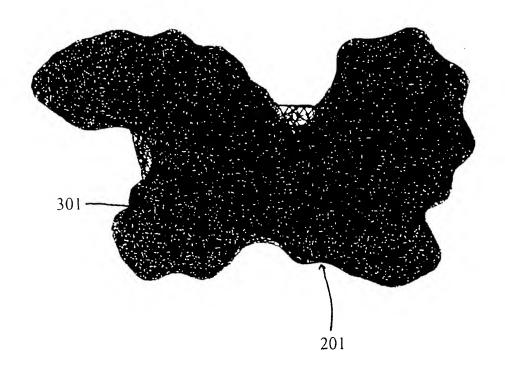


FIG. 4B

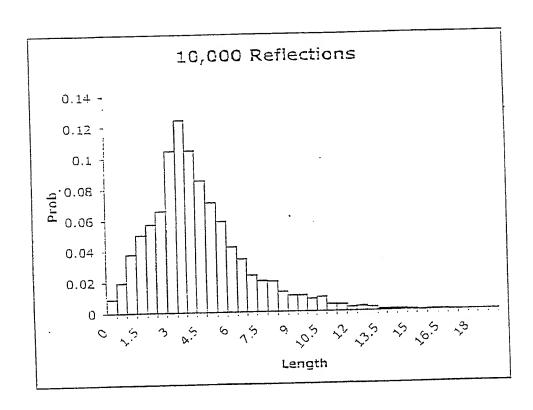


FIG. 5A

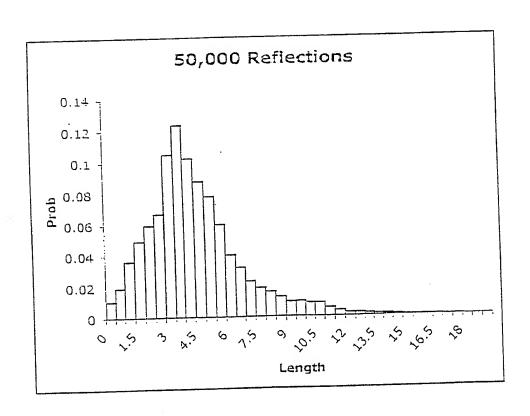


FIG. 5B

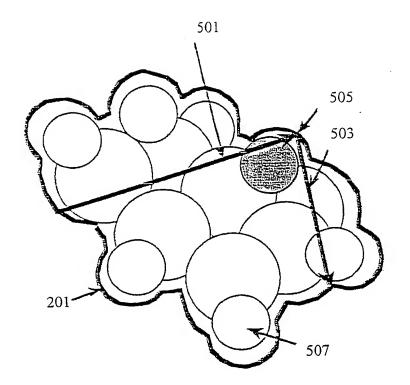
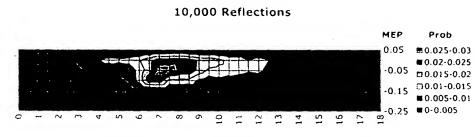


FIG. 6



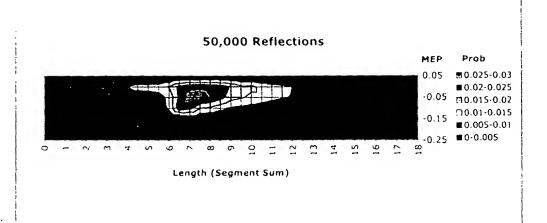


FIG. 7B

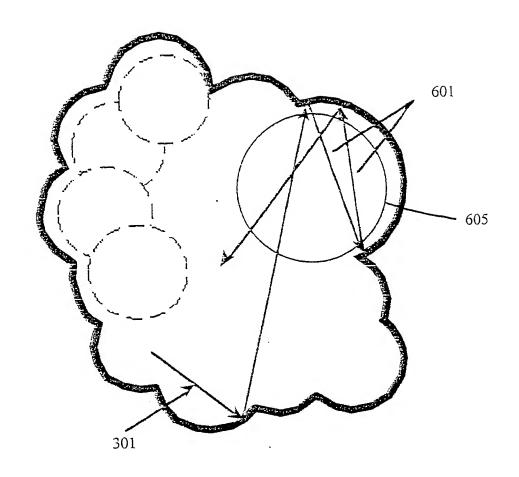


FIG. 8

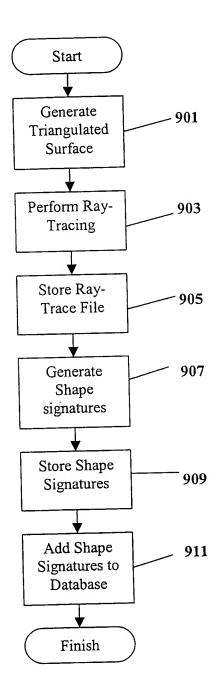
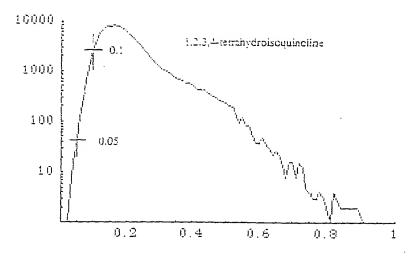
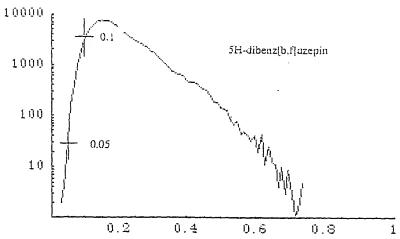
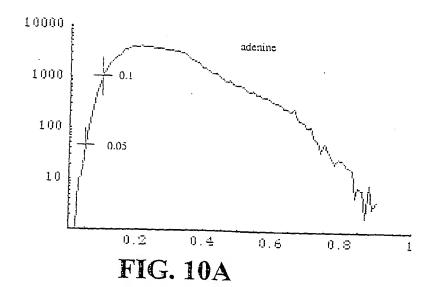
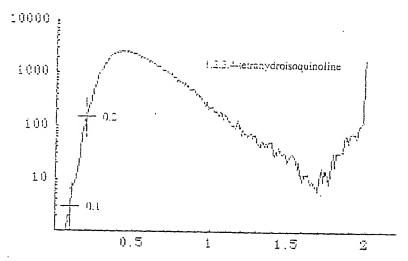


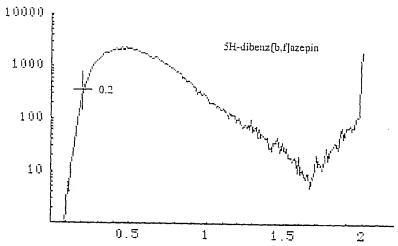
FIG. 9











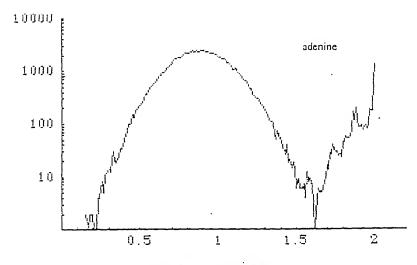


FIG. 10B

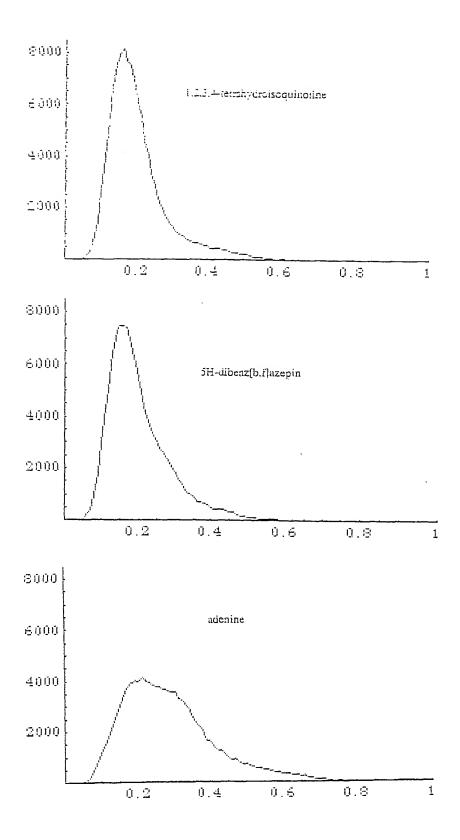
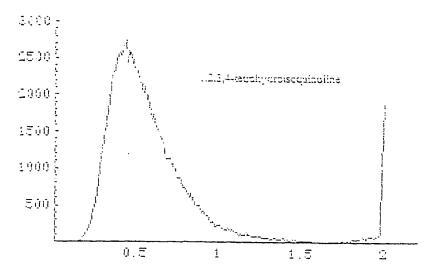
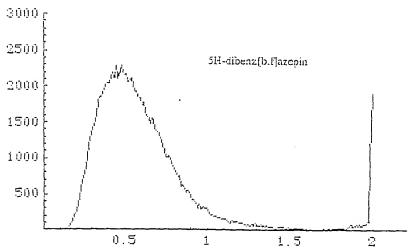


FIG. 11A





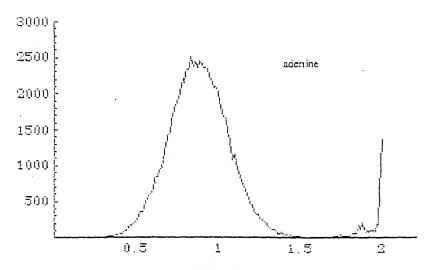


FIG. 11B

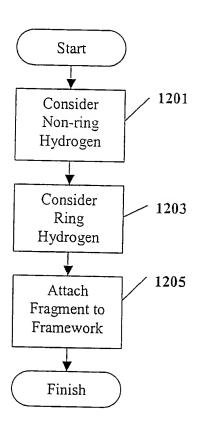


FIG. 12

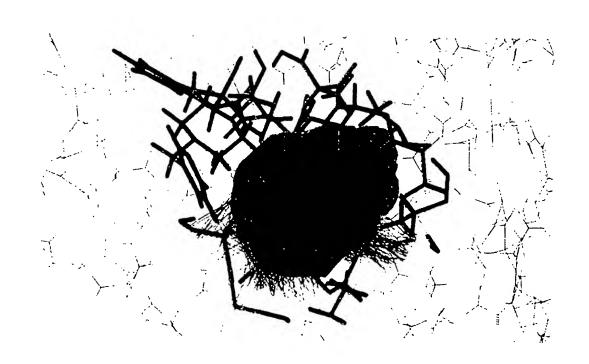


FIG. 13A

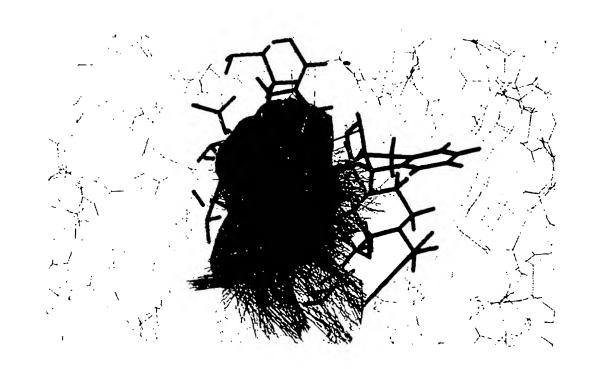


FIG. 13B

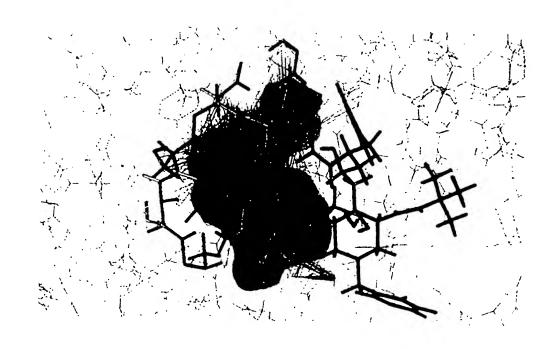


FIG. 13C

FIG. 14A

ANGIO	Culling		Culling Yar Calling	
) 	Score	_	Score
	1,2,3,4-tetrahydroquinoline	0.0370	1,2,3,4-tetrahydroquinoline	0.017.3
	Isochroman	0.0386	Isochroman	0.0316
1,2,3,4-tetrahydroisoquimoline	1,2,3,4-tetrahydronaphthalene	0.0490	chroman	0.0399
	chroman	0.0574	1,2,3,4-tetrafiydronaphifhafene	0.0.175
	indoline	0.0767	indan	0.0525
	dibenzocycloheptatriene	0.0351	dibenzoeyelohepfatriene	0.033
	dihydrophenanthrene	0.0482	dihydrophenanthrene	0.038.0
5H-dibenzlb,Flazepin	thioxauthene	0.0578	thioxanthene	0.0.166
	dibenz[b,f]fhiepin	0.0695	511-dibenzo b,f}-f,4diazepine	0.0:487
	511-dibenzolb,f]-1,4-diazepine	0.0800	dibenz(b,f/thicpin	0.0578
	4,6-gonadiene-3,17-dione	0.0502	4,6-gonadiene-3,17-dione	0.0
	1,4-gonadien-3-one	0.0743	1,4-gonadien-3-one	0.0660
1,4,6-gonatriene-3,17-dione	4-допен-3-опе	0.0984	4-gonen-3-one	(0.08.38)
	[1,3,5(10)-gonnfrienc	0.0986	1,3,5(10)-gonatriene	0.0862
	5(10)-gonen-3-one	0.1004	5(10)-gonen-3-one	0.098-1
a-D-glucopyranose	A -D-mannapyranose	0.0417	α-D-mannopyranose	0.0376
	β-D-galactopyranose	0.0420	β -D-mannopyranose	0.0370
	(a-f)-mannapyranose	0.0559	A-D-galactopyranose	0.0391
	α-D-galactopyranose	0.0744	α-D-galac(opyranose	0.0560
	B-D-glucopyranose	0.0748	B-D-glucopyranose	0.0766
n af dwys weither all grade had been well dated to be the state of the age to be the state of the state of the	Arginine	0.0862	Methionine	0.0527
	Methionine	0.1024	Arginine	0.0821
1.ysine	Palmitolente(C16)	0.1163	Laurate(C12)	0.0959
	glycerol(-11)	0.1179	Palmitofeate(C16)	0.100-1
	Oleate(C48)	0.1202	Alyristate(C14)	0.1006
	guanine	0.0626	guanine	0.0388
	7H-purine	0.0712	711-ригіне	0.0701
adenine	eyfosine	0.0840	Denzimidazole	0.074.3
	uracil	0.0854	111-indazole	0.07.17
	L. C.	09300		

Results for Six Query Compounds, 1-D Shape Signature Self-Comparison of Tripos Fragment Database using L. Metric	. 41	indoline	SH-dibenzo[b.f]-	atriene 5(10)-gonen-3-one			
rison of Tripos Fragmer		-tetrahydro-	thene dibenz[b,f]thiepin	3-one 1.3.5(10)-gonatriene		eate	
e Signature Self-Compai	2# 	1,2,3,4-tetral isochroman	dihydrophenan-thioxanthene	1.4-gonadiene-3-one	β.D.galacto- pyranose pyranose	~	
y Compounds, 1-D Shap	HII #1	1,2,3,4-tetrahydro-isoc	lohepta	gonadiene-		^	\ <u>\</u>
Results for Six Quer	QUERIES	1,2,3,4-tetrahydro-		1.4.6-gonatriene-	<u> </u>	*)

. Results for Six Query Compounds, 20-MEP Shape Signature Self-Comportson of Tripos Fragment Datahase using

OUERY	Culling		No Culling	
	IIII	Score		Score
	1,2,3,4-tetrahydroquinoline	0.0847	1,2,3,4-tetrahydroquinoline	0.0762
	1,2,3,4-t¢trahydronaphthalene	0.1-196	1,2,3,4-tetrahydronaphthalene	0.1307
1,2,3,4-tetrahydroisoquinoline	indoline	0.1732	indoline	0.1320
	acenaphthene	0.1908	indan	0.155.1
	indan	0.2161	acenaphthene	0.180-1
	dibenzocycloheptatriene	0.1116	dibenzaeyelaheptatriene	0.1031
	acridan	0.2089	acridan	0.15.38
511-dibenz(b,f)azepin	511-dibenzofb,fl-1,4-diazepine	0.2109	511-dibenzo[b,f]-1,4-diazepine	0.1672
	1,2,3,4-tetrahydroisaqninoline	0.2268	phenanthridine	0.1762
	1,2,3,4-tetrahydroquinoline	0.2292	dihydrophenanthrene	0.1802
	4,6-gonadiene-3,17-dione	0.0888	4,6-gonadiene-3,17-diane	0.0852
	Sa-gonane-3,17-dione	0.1383	5a-ganane-3,17-diane	0.138.3
1,4,6-gonatriene-3,17-dione	1,4-gonadien-3-one	0.2028	1,4-gonadien-3-one	0.2097
	5a-gonap-3-one	0.2031	4-gonen-3-one	0.2122
	5a-gonan-17-one	0.2211	5a-gonan-3-one	0.2221
	A-D-ribafigranose	0.2292	B-D-glucopyranose	0.2223
	β-D-glueopyranose	0.2368	α-D-fructofuranose	0.2,317
2-deoxy-b-D-rihofuranose	α-D-fructofuranose	0.2480	a-D-mannopyranose	0.2.1.87
	a-D-galactopyranose	0.2616	β-D-ribofuranose	0.2445
	a-D-mappopyranose	0.2696	α-D-glucopyranose	0.2575
	Arginine	0.6615	Arginine	0.6617
	ethanolamine	0.7882	ethanolamine	0.7621
Lysine	choline	1.2682	choline	1.24:12
	D-Threase	1.5332	D-Threose	1.4601
	D-Xylose	1.5667	D-Xylose	1.4912
	pteridine	0,4025	benzothiazole	0.3493
	Denzothiazole	0.4321	pteridine	0.3816
adenine	gnanine	0.4394	thiazole	0.3981
	711-purine	0.4427	711-purine	0.4254
	indene	0.461:1	guanine	0.1265

. Results for Six Query Compounds, 1D Shape Signature Comparison of Tripos Fragment Database against the NCI Database using $L_{\rm L}$ and $R_{\rm L}$ Metrics

OUERY	L, Metric	,	R, Metric	
	1111	Score	Mil	Score
	91-21-4	0,0291	91.21.4	0.1153
	10500-57-9	0.0336	6-22-00501	0.1:109
1,2,3,4-tetrahydroisoquinoline	529-35-1	0,0348	578-54-1	0.1428
	578-54-1	0.0380	493-05-0	0.1534
	24206-39-1	0.0397	529-35-1	0.17-13
	833-48-7	0.0324	833-48-7	0.1-10-4
	6-90-1171	0.0360	1211-06-9	0.1673
5H-dibenz[b,f]azepin	10354-00-4	0.0415	10354-00-4	0.1789
	82-53-1	0.0441	42263-75-2	0.2142
	6-51-625	0.0488	51087-02-6	0.2300
The state of the s	24640-00-4	0.0450	6126-58-5	0.2289
	1-96-81-01	0.0556	24640-00-4	0.2561
1,4,6-gonatriene-3,17-dione	438-67-5	0.0570	5-90-8969	0.2672
	5976-74-9	0.0376	20919-82-8	0.2908
	6126-58-5	0.0584	3601-97-6	0.2963
	488-66-4	0.0546	74561-03-8	0.2223
	23559-36-6	0.05:48	488-66-4	0.2548
a-D-glucopyranose	74561-03-8	0.0553	488-64-2	0.2548
	16505-91-2	0.0607	6623-68-3	0,2548
	39392-65-9	0.0655	2037-48-1	0.25:0
	5329-79-3	0.0478	37149-01-2	0.187.1
	110-97-4	0.0486	6963-39-9	0.1882
Lysine .	5343-35-1	0.0552	110-97-4	0.2107
	37149-01-2	0.0555	6281-43-2	0.2201
	7356-00-5	0.0563	104-50-7	0.2224
	10325-61-8	0.0271	10325-61-8	0.0944
	54346-27-9	0.0304	54346-27-9	0.0988
adenine	73-2-1-5	0.0310	5426-35-7	0.1178
	1123-54-2	0.03-13	73-24-5	0.1178
	2227-98-7	0.0353	19165-47-0	0.1178

FIG. 16A

		ſ			r — —	r	
ise vs. NCI	W. ##	24206.39-1	6.279-16.9	(1.7. 1.7. 1.7. 1.7. 1.7. 1.7. 1.7. 1.7.	39.382-65-9	5-00-95EL	2227-98-7
os Fragment Databa	7 #	578-54-1	, , , , , , , , , , , , , , , , , , ,	6-72-9268	16505-91-2	37149-01-2	1123-54-2
: Comparison of Trip	#3	529-35-1	10354-00-4	438-67-5	74561-03-8	-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\	73.24.5
. 1-D Shape Signatur	#2	10500-57-9	1211-06-9	10448-96-1	23559-36-6	110-97-4	\$4346.27.9
Results for Six Query Compounds. 1-D Shape Signature Comparison of Tripos Fragment Database vs. NC1	HIT #1	91-21-4	833-48-7	24640-00-4	188-66-4	5329-79-3	10325-61-8
Its for !	1	, , ,	, ,		e e		
Resu	QUERIES	1,2,3,4-tetrahydro-isoquinoline	SH-dibenzlb.fl-	1,46-gonatriene-	α-D-glucopyranose	Lysine	adenine
					FIG. 16B		

, Residus for Six Query Compounds, 2D-MRP Shape Signature Comparison of Tripos Fragment Database against the NCI Database using L_l and R_l Metrics

QUERV	QUERY L, Metrie R, M		R, Metric	
	III	Score	IIII	Score
	91-21-4	0.0701	91-21-4	0.5232
	635-46-1	0.0816	635-46-1	0.6553
1,2,3,4-tetrahydroisoquinoline	1484-19-1	0.0940	1484-19-1	0.6977
	1780-19-4	0.0983	5344-99-0	0.7295
	5344-99-0	0.1011	1780-19-4	0.8070
	0-66-91-906	0.09-17	30646-39-0	0,8078
	16886-10-5	0.1079	3377-71-7	0.9075
511-dibenz[b,f]azepin	32446-13-2	0.1089	16886-10-5	0.9104
	3377-71-7	0.1126	32446-13-2	0.9166
	833-48-7	0.1167	833-48-7	0.9411
	56763-86-1	0.1524	20056-05-7	1.3-118
	734-32-7	0.1645	1-98-8919	1.3-151
1,4,6-gonatriene-3,17-dione	93998-31-3	0.1682	74924-17-7	1.4169
	20056-05-7	0.1693	734-32-7	1.49-19
	74924-17-7	0.1702	71837-43-9	1.5131
	52019-14-4	0.1815	52019-14-4	1.4065
	49871-87-6	0.1833	58691-27-3	1.4270
α-D-glucopyranose	58691-27-3	0.1912	49871-87-6	1.4514
	7404-25-3	0.2015	2280-44-6	1.5418
	14215-77-1	0.2018	14215-77-1	1.5520
	42021-74-9	0.5473	85385-47-3	4.1381
	580-18-33-2	0.5549	58048-33-2	4.2359
Lysine	58048-35-4	0.5684	42021-74-9	4.2447
	37082-52-3	0.5719	78582-26-0	4.3301
	78582-26-0	0.5721	62194-88-1	4.3458
	73-24-5	0.0683	73-24-5	0.5048
	28128-33-8	0.1537	28128-33-8	1.0824
adenine	7390-62-7	0.1581	7390-62-7	1.2106
	2846-89-1	0.17-44	2846-89-1	1.2:19.1
	3647-48-1	0.1820	1904-98-9	1.29.17

FIG. 17A

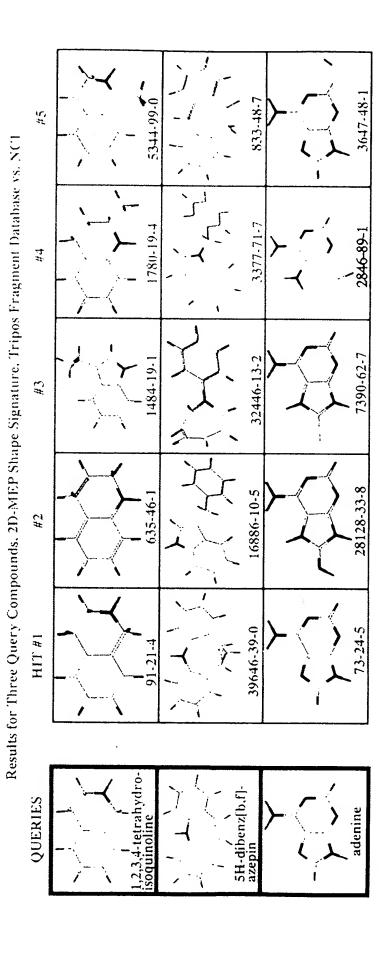


FIG. 17B

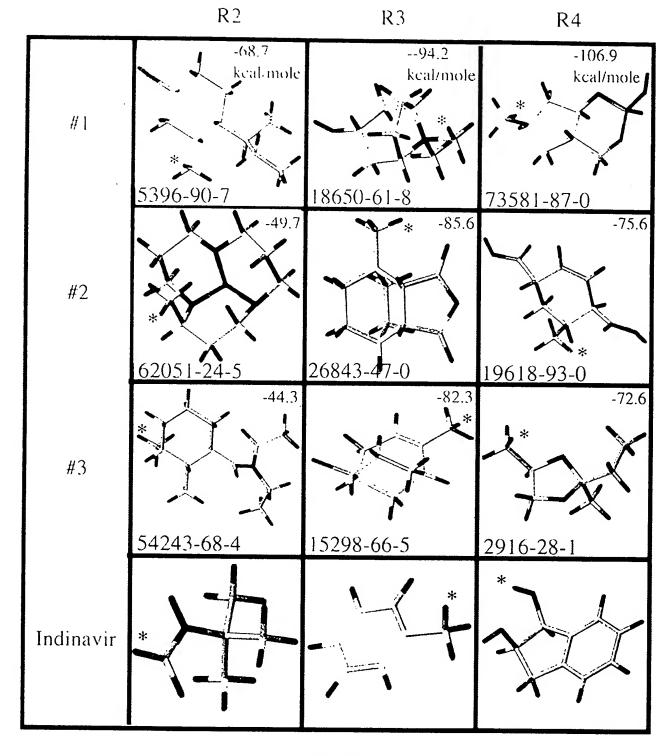


FIG. 18

Rank E	inergy(kca	ıl/mol) Structure
#1	-117.3	2000-14-4
#2	-117.0	73581-87-0 73581-87-0 5448-23-7 18650-61-8
#4	-115.2	73581-87-0 5396-90-7 18650-61-8
Indinavir	-97.2	R4(benzocyclopentanol) R1(pyridine) R3(phenyl)

FIG. 19